

WELL DETAILS: Whiston 16N-33HZ

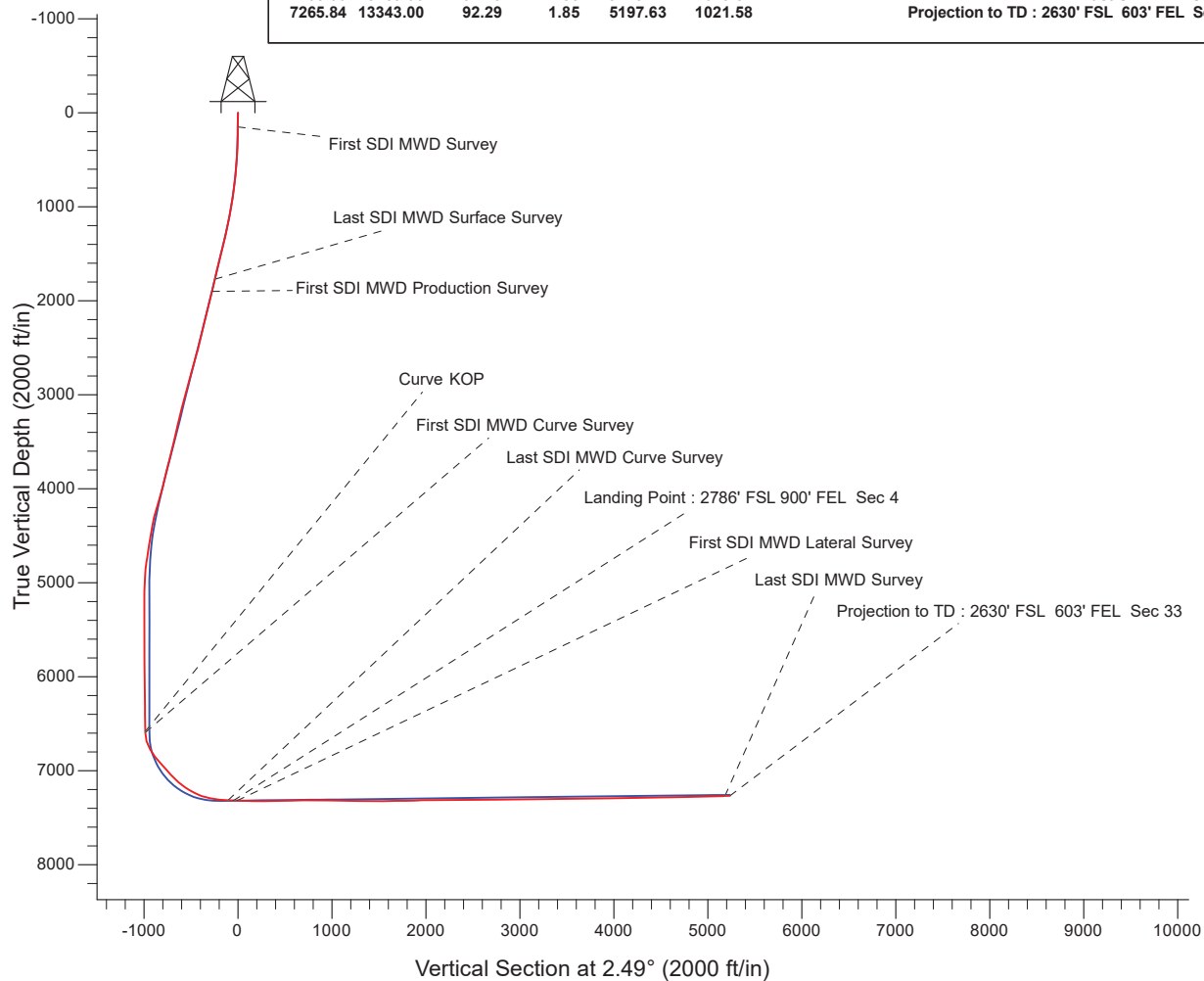
GL 4905' & KB 20' @ 4925.00ft (Precision 461)		4905.00	
Northing	Easting	Latitude	Longitude
14587873.46	1670711.47	40.1678490	-104.8915580
Design: OH (Whiston 16N-33HZ/OH)			
Created By: Seth Burstad Date: 4-03-2017			

PROJECT DETAILS: US Rockies Wattenberg Planning UTM83

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Zone 13N (108 W to 102 W)
 System Datum: Mean Sea Level
 Local North: True

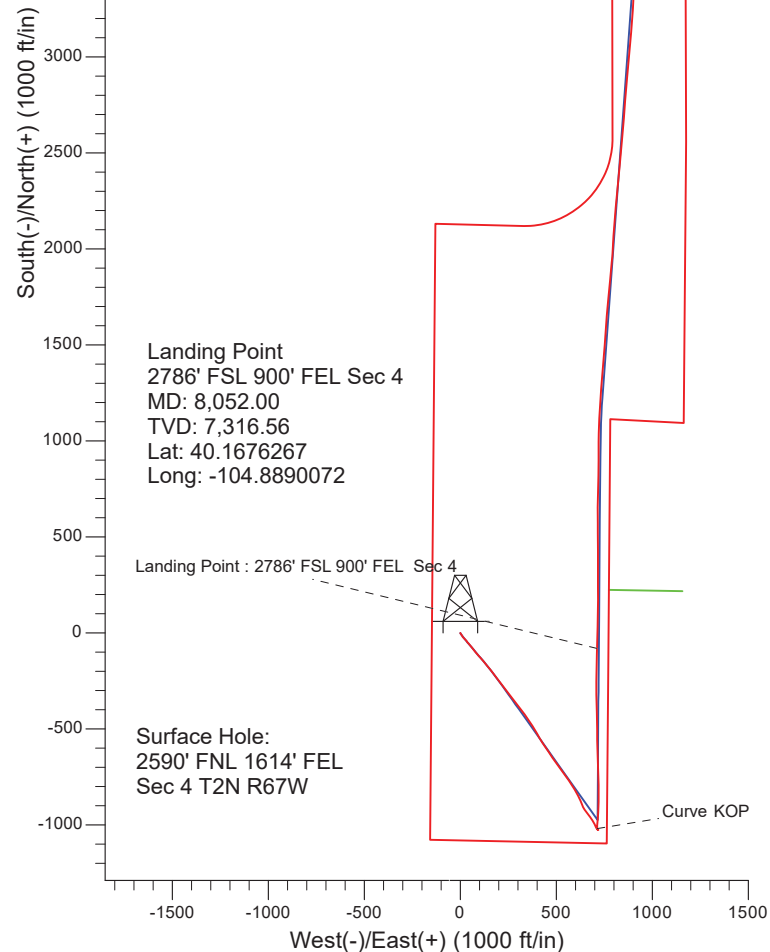
ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Annotation
150.00	150.00	0.46	139.04	-0.45	0.39	First SDI MWD Survey
1770.51	1812.00	16.59	144.68	-254.41	204.36	Last SDI MWD Surface Survey
1899.73	1947.00	17.08	139.90	-285.30	228.27	First SDI MWD Production Survey
6584.19	6762.00	1.91	339.84	-1018.25	713.43	Curve KOP
6594.18	6772.00	2.08	340.52	-1017.92	713.31	First SDI MWD Curve Survey
7314.32	7998.00	87.48	1.33	-134.89	711.23	Last SDI MWD Curve Survey
7316.56	8052.00	87.76	1.57	-80.96	712.60	Landing Point : 2786' FSL 900' FEL Sec 4
7318.08	8093.00	87.98	1.76	-40.00	713.79	First SDI MWD Lateral Survey
7268.00	13289.00	92.29	1.85	5143.71	1019.84	Last SDI MWD Survey
7265.84	13343.00	92.29	1.85	5197.63	1021.58	Projection to TD : 2630' FSL 603' FEL Sec 33



BHL
 2630' FSL 603' FEL Sec 33
 MD: 13,343.00
 TVD: 7,265.84
 Lat: 40.1821222
 Long: -104.8879004

Projection to TD : 2630' FSL 603' FEL Sec 33





US ROCKIES REGION PLANNING

US Rockies Wattenberg Planning UTM83

Whiston 4-7HZ Pad 2N-67W-4

Whiston 16N-33HZ

OH

Design: OH

Standard Survey Report

03 April, 2017



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Whiston 16N-33HZ
Project:	US Rockies Wattenberg Planning UTM83	TVD Reference:	GL 4905' & KB 20' @ 4925.00ft (Precision 461)
Site:	Whiston 4-7HZ Pad 2N-67W-4	MD Reference:	GL 4905' & KB 20' @ 4925.00ft (Precision 461)
Well:	Whiston 16N-33HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Project	US Rockies Wattenberg Planning UTM83		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site	Whiston 4-7HZ Pad 2N-67W-4, Site Center : Whiston 9N-33HZ				
Site Position:		Northing:	14,587,873.80 usft	Latitude:	40.1678500
From:	Lat/Long	Easting:	1,670,696.66 usft	Longitude:	-104.8916110
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.07 °

Well	Whiston 16N-33HZ, 2590' FNL 1614' FEL Sec 4 T2N R67W					
Well Position	+N/-S	0.00 ft	Northing:	14,587,873.45 usft	Latitude:	40.1678490
	+E/-W	0.00 ft	Easting:	1,670,711.46 usft	Longitude:	-104.8915580
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,905.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2016	1/10/2017	8.47	66.69	52,300

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	2.49	

Survey Program	Date	4/3/2017			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
150.00	1,812.00	Survey #1 - Surface (OH)	APC_ISCWSA REV 2 MWD+	Fixed:v2:crustal field declination	
1,947.00	13,343.00	Survey #2 - Production (OH)	APC_ISCWSA REV 2 MWD+	Fixed:v2:crustal field declination	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
150.00	0.46	139.04	150.00	-0.45	0.39	-0.44	0.31	0.31	0.00	
First SDI MWD Survey										
232.00	0.96	147.53	231.99	-1.28	0.98	-1.24	0.62	0.61	10.35	
538.00	5.51	147.13	537.42	-15.79	10.33	-15.33	1.49	1.49	-0.13	
582.00	6.21	143.10	581.19	-19.47	12.91	-18.89	1.84	1.59	-9.16	
669.00	7.42	135.48	667.58	-27.24	19.67	-26.36	1.73	1.39	-8.76	
804.00	10.03	140.56	801.01	-42.54	33.26	-41.05	2.01	1.93	3.76	
844.00	10.97	141.11	840.34	-48.19	37.86	-46.50	2.36	2.35	1.38	
889.00	11.10	141.32	884.51	-54.90	43.25	-52.97	0.30	0.29	0.47	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Whiston 16N-33HZ
Project:	US Rockies Wattenberg Planning UTM83	TVD Reference:	GL 4905' & KB 20' @ 4925.00ft (Precision 461)
Site:	Whiston 4-7HZ Pad 2N-67W-4	MD Reference:	GL 4905' & KB 20' @ 4925.00ft (Precision 461)
Well:	Whiston 16N-33HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,019.00	13.03	140.68	1,011.63	-76.01	60.36	-73.32	1.49	1.48	-0.49	
1,108.00	14.62	140.54	1,098.05	-92.45	73.86	-89.15	1.79	1.79	-0.16	
1,195.00	16.15	139.71	1,181.93	-110.15	88.66	-106.20	1.78	1.76	-0.95	
1,282.00	17.36	138.62	1,265.23	-129.12	105.07	-124.44	1.44	1.39	-1.25	
1,370.00	17.71	139.80	1,349.14	-149.20	122.39	-143.74	0.57	0.40	1.34	
1,459.00	18.07	140.03	1,433.84	-170.11	139.99	-163.87	0.41	0.40	0.26	
1,546.00	18.01	141.96	1,516.56	-191.05	156.95	-184.05	0.69	-0.07	2.22	
1,635.00	17.54	143.02	1,601.31	-212.60	173.49	-204.86	0.64	-0.53	1.19	
1,721.00	17.10	143.28	1,683.42	-233.08	188.85	-224.66	0.52	-0.51	0.30	
1,812.00	16.59	144.68	1,770.51	-254.41	204.36	-245.29	0.72	-0.56	1.54	
Last SDI MWD Surface Survey										
1,947.00	17.08	139.90	1,899.73	-285.30	228.27	-275.11	1.09	0.36	-3.54	
First SDI MWD Production Survey										
2,041.00	17.69	142.37	1,989.44	-307.17	245.88	-296.20	1.02	0.65	2.63	
2,135.00	18.06	142.17	2,078.90	-329.99	263.54	-318.23	0.40	0.39	-0.21	
2,228.00	17.77	141.98	2,167.39	-352.56	281.12	-340.01	0.32	-0.31	-0.20	
2,323.00	18.39	143.17	2,257.70	-375.97	299.03	-362.62	0.76	0.65	1.25	
2,417.00	17.33	142.06	2,347.17	-398.88	316.53	-384.75	1.18	-1.13	-1.18	
2,512.00	17.77	142.90	2,437.75	-421.60	333.97	-406.70	0.53	0.46	0.88	
2,606.00	17.71	146.48	2,527.28	-444.96	350.52	-429.32	1.16	-0.06	3.81	
2,701.00	18.80	148.88	2,617.50	-470.12	366.41	-453.75	1.39	1.15	2.53	
2,795.00	18.26	148.35	2,706.62	-495.62	381.97	-478.56	0.60	-0.57	-0.56	
2,889.00	18.75	149.90	2,795.77	-521.23	397.27	-503.47	0.74	0.52	1.65	
2,982.00	19.08	148.77	2,883.74	-547.16	412.65	-528.71	0.53	0.35	-1.22	
3,077.00	17.48	145.70	2,973.95	-572.22	428.74	-553.05	1.97	-1.68	-3.23	
3,170.00	17.91	146.45	3,062.55	-595.68	444.52	-575.80	0.52	0.46	0.81	
3,265.00	17.62	145.08	3,153.02	-619.64	460.82	-599.04	0.54	-0.31	-1.44	
3,359.00	16.83	144.34	3,242.80	-642.36	476.90	-621.04	0.87	-0.84	-0.79	
3,454.00	16.69	144.25	3,333.77	-664.61	492.89	-642.57	0.15	-0.15	-0.09	
3,548.00	16.26	146.67	3,423.91	-686.56	508.00	-663.84	0.86	-0.46	2.57	
3,643.00	16.69	147.19	3,515.01	-709.14	522.70	-685.76	0.48	0.45	0.55	
3,736.00	17.08	143.29	3,604.00	-731.31	538.10	-707.24	1.29	0.42	-4.19	
3,829.00	17.84	145.77	3,692.72	-754.04	554.28	-729.25	1.14	0.82	2.67	
3,923.00	17.18	144.18	3,782.36	-777.20	570.51	-751.68	0.87	-0.70	-1.69	
4,017.00	16.48	145.66	3,872.33	-799.47	586.15	-773.25	0.87	-0.74	1.57	
4,111.00	16.86	147.93	3,962.39	-822.03	600.91	-795.14	0.80	0.40	2.41	
4,204.00	16.87	155.53	4,051.40	-845.74	613.66	-818.28	2.37	0.01	8.17	
4,298.00	19.41	157.09	4,140.72	-872.55	625.40	-844.55	2.75	2.70	1.66	
4,393.00	17.66	156.69	4,230.79	-900.32	637.24	-871.79	1.85	-1.84	-0.42	
4,487.00	15.57	143.45	4,320.89	-923.56	650.40	-894.43	4.59	-2.22	-14.09	
4,582.00	13.67	143.99	4,412.81	-942.89	664.60	-913.12	2.01	-2.00	0.57	
4,676.00	12.44	143.31	4,504.38	-959.99	677.18	-929.67	1.32	-1.31	-0.72	
4,769.00	11.12	146.89	4,595.42	-975.54	688.06	-944.72	1.62	-1.42	3.85	

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Site:	Whiston 4-7HZ Pad 2N-67W-4	MD Reference:	GL 4905' & KB 20' @ 4925.00ft (Precision 461)
Well:	Whiston 16N-33HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,863.00	9.90	151.92	4,687.84	-990.26	696.82	-959.05	1.62	-1.30	5.35
4,958.00	8.36	159.56	4,781.64	-1,003.94	703.08	-972.45	2.06	-1.62	8.04
5,052.00	6.57	148.55	4,874.84	-1,014.93	708.27	-983.20	2.43	-1.90	-11.71
5,146.00	4.09	135.59	4,968.43	-1,021.91	713.42	-989.95	2.92	-2.64	-13.79
5,242.00	2.09	124.73	5,064.29	-1,025.36	717.26	-993.23	2.16	-2.08	-11.31
5,337.00	0.61	95.83	5,159.26	-1,026.40	719.18	-994.18	1.67	-1.56	-30.42
5,458.00	0.03	262.99	5,280.26	-1,026.47	719.79	-994.22	0.53	-0.48	138.15
5,551.00	0.18	168.38	5,373.26	-1,026.61	719.80	-994.37	0.20	0.16	-101.73
5,646.00	0.11	122.13	5,468.26	-1,026.81	719.90	-994.56	0.14	-0.07	-48.68
5,739.00	0.56	336.95	5,561.26	-1,026.44	719.80	-994.19	0.70	0.48	-156.11
5,832.00	0.60	287.77	5,654.25	-1,025.87	719.16	-993.66	0.52	0.04	-52.88
5,928.00	0.94	307.97	5,750.24	-1,025.23	718.06	-993.07	0.45	0.35	21.04
6,021.00	0.08	266.82	5,843.24	-1,024.76	717.39	-992.63	0.95	-0.92	-44.25
6,115.00	0.68	320.72	5,937.24	-1,024.34	716.98	-992.22	0.68	0.64	57.34
6,210.00	0.69	314.33	6,032.23	-1,023.50	716.21	-991.42	0.08	0.01	-6.73
6,302.00	0.77	342.40	6,124.22	-1,022.52	715.63	-990.47	0.39	0.09	30.51
6,397.00	0.17	2.09	6,219.22	-1,021.77	715.44	-989.73	0.64	-0.63	20.73
6,492.00	0.63	335.94	6,314.22	-1,021.16	715.23	-989.12	0.51	0.48	-27.53
6,586.00	0.46	312.80	6,408.21	-1,020.43	714.74	-988.41	0.29	-0.18	-24.62
6,679.00	0.55	318.02	6,501.21	-1,019.84	714.17	-987.85	0.11	0.10	5.61
6,762.00	1.91	339.84	6,584.19	-1,018.25	713.43	-986.29	1.71	1.64	26.29
Curve KOP									
6,772.00	2.08	340.52	6,594.18	-1,017.92	713.31	-985.97	1.71	1.69	6.79
First SDI MWD Curve Survey									
6,864.00	16.93	2.64	6,684.68	-1,002.88	713.37	-970.94	16.33	16.14	24.04
6,957.00	28.99	5.61	6,770.15	-966.79	716.21	-934.76	13.02	12.97	3.19
7,052.00	38.23	2.49	6,849.19	-914.39	719.74	-882.26	9.89	9.73	-3.28
7,146.00	42.02	0.50	6,921.06	-853.85	721.28	-821.71	4.26	4.03	-2.12
7,241.00	40.85	358.68	6,992.28	-790.99	720.84	-758.93	1.77	-1.23	-1.92
7,336.00	44.20	357.83	7,062.29	-726.82	718.87	-694.90	3.58	3.53	-0.89
7,430.00	49.86	358.13	7,126.33	-658.11	716.46	-626.36	6.03	6.02	0.32
7,525.00	56.44	358.90	7,183.28	-582.16	714.51	-550.57	6.96	6.93	0.81
7,620.00	62.47	359.11	7,231.53	-500.39	713.10	-468.94	6.35	6.35	0.22
7,714.00	70.95	358.54	7,268.67	-414.15	711.31	-382.86	9.04	9.02	-0.61
7,809.00	78.69	359.74	7,293.52	-322.55	709.96	-291.40	8.24	8.15	1.26
7,904.00	84.29	0.24	7,307.58	-228.63	709.94	-197.57	5.92	5.89	0.53
7,998.00	87.48	1.33	7,314.32	-134.89	711.23	-103.87	3.59	3.39	1.16
Last SDI MWD Curve Survey									
8,052.00	87.76	1.57	7,316.56	-80.96	712.60	-49.92	0.69	0.53	0.45
Landing Point : 2786' FSL 900' FEL Sec 4									
8,093.00	87.98	1.76	7,318.08	-40.00	713.79	-8.96	0.69	0.53	0.45
First SDI MWD Lateral Survey									
8,187.00	88.76	1.02	7,320.76	53.93	716.07	84.99	1.14	0.83	-0.79
8,280.00	89.23	0.65	7,322.39	146.90	717.42	177.93	0.64	0.51	-0.40
8,376.00	90.10	359.92	7,322.95	242.90	717.90	273.86	1.18	0.91	-0.76

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,469.00	91.44	0.00	7,321.70	335.89	717.83	366.76	1.44	1.44	0.09
8,564.00	91.34	359.30	7,319.40	430.86	717.25	461.61	0.74	-0.11	-0.74
8,657.00	90.37	359.78	7,318.01	523.84	716.51	554.48	1.16	-1.04	0.52
8,752.00	91.27	0.54	7,316.65	618.83	716.77	649.39	1.24	0.95	0.80
8,845.00	90.50	0.23	7,315.21	711.82	717.40	742.31	0.89	-0.83	-0.33
8,940.00	90.74	2.18	7,314.18	806.79	719.40	837.28	2.07	0.25	2.05
9,034.00	88.02	359.33	7,315.20	900.75	720.63	931.21	4.19	-2.89	-3.03
9,128.00	88.72	0.68	7,317.88	994.71	720.64	1,025.08	1.62	0.74	1.44
9,222.00	89.16	2.38	7,319.61	1,088.66	723.15	1,119.05	1.87	0.47	1.81
9,316.00	89.83	3.66	7,320.44	1,182.52	728.10	1,213.04	1.54	0.71	1.36
9,410.00	89.09	4.62	7,321.33	1,276.27	734.89	1,307.00	1.29	-0.79	1.02
9,505.00	89.19	4.33	7,322.75	1,370.97	742.30	1,401.93	0.32	0.11	-0.31
9,599.00	90.44	4.76	7,323.06	1,464.67	749.75	1,495.86	1.41	1.33	0.46
9,692.00	91.38	4.19	7,321.58	1,557.38	757.01	1,588.80	1.18	1.01	-0.61
9,786.00	90.30	3.98	7,320.20	1,651.13	763.70	1,682.75	1.17	-1.15	-0.22
9,878.00	91.31	5.17	7,318.91	1,742.82	771.04	1,774.67	1.70	1.10	1.29
9,973.00	91.55	5.94	7,316.54	1,837.35	780.23	1,869.51	0.85	0.25	0.81
10,066.00	91.78	5.31	7,313.84	1,929.86	789.34	1,962.33	0.72	0.25	-0.68
10,159.00	90.70	3.40	7,311.83	2,022.56	796.40	2,055.25	2.36	-1.16	-2.05
10,253.00	89.73	4.19	7,311.47	2,116.35	802.62	2,149.23	1.33	-1.03	0.84
10,348.00	89.77	4.54	7,311.89	2,211.08	809.85	2,244.17	0.37	0.04	0.37
10,442.00	90.60	5.20	7,311.58	2,304.74	817.83	2,338.09	1.13	0.88	0.70
10,537.00	91.38	5.98	7,309.94	2,399.27	827.09	2,432.94	1.16	0.82	0.82
10,631.00	90.94	5.07	7,308.04	2,492.81	836.13	2,526.78	1.08	-0.47	-0.97
10,724.00	90.40	5.24	7,306.95	2,585.43	844.49	2,619.68	0.61	-0.58	0.18
10,820.00	90.10	4.42	7,306.53	2,681.09	852.57	2,715.59	0.91	-0.31	-0.85
10,914.00	89.83	4.18	7,306.59	2,774.82	859.62	2,809.55	0.38	-0.29	-0.26
11,009.00	90.61	4.92	7,306.23	2,869.52	867.16	2,904.48	1.13	0.82	0.78
11,103.00	90.57	4.90	7,305.26	2,963.17	875.20	2,998.40	0.05	-0.04	-0.02
11,196.00	91.01	5.17	7,303.97	3,055.80	883.36	3,091.29	0.56	0.47	0.29
11,291.00	91.21	5.45	7,302.13	3,150.38	892.15	3,186.16	0.36	0.21	0.29
11,386.00	90.94	3.39	7,300.35	3,245.07	899.47	3,281.09	2.19	-0.28	-2.17
11,480.00	90.20	2.52	7,299.42	3,338.94	904.32	3,375.08	1.22	-0.79	-0.93
11,573.00	90.24	3.53	7,299.06	3,431.81	909.23	3,468.07	1.09	0.04	1.09
11,667.00	90.27	3.31	7,298.64	3,525.64	914.83	3,562.06	0.24	0.03	-0.23
11,761.00	90.91	3.77	7,297.67	3,619.46	920.64	3,656.04	0.84	0.68	0.49
11,855.00	91.84	4.49	7,295.42	3,713.18	927.41	3,749.97	1.25	0.99	0.77
11,950.00	90.74	4.30	7,293.28	3,807.88	934.68	3,844.89	1.18	-1.16	-0.20
12,045.00	90.74	3.60	7,292.05	3,902.64	941.23	3,939.85	0.74	0.00	-0.74
12,138.00	91.04	5.26	7,290.61	3,995.35	948.41	4,032.78	1.81	0.32	1.78
12,233.00	91.31	5.48	7,288.66	4,089.91	957.30	4,127.64	0.37	0.28	0.23
12,327.00	90.34	4.51	7,287.31	4,183.55	965.48	4,221.54	1.46	-1.03	-1.03
12,421.00	91.04	3.50	7,286.17	4,277.31	972.05	4,315.50	1.31	0.74	-1.07

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Whiston 16N-33HZ
Project:	US Rockies Wattenberg Planning UTM83	TVD Reference:	GL 4905' & KB 20' @ 4925.00ft (Precision 461)
Site:	Whiston 4-7HZ Pad 2N-67W-4	MD Reference:	GL 4905' & KB 20' @ 4925.00ft (Precision 461)
Well:	Whiston 16N-33HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,515.00	89.36	3.33	7,285.85	4,371.14	977.65	4,409.48	1.80	-1.79	-0.18
12,611.00	90.94	3.53	7,285.59	4,466.96	983.39	4,505.47	1.66	1.65	0.21
12,706.00	91.04	3.66	7,283.95	4,561.76	989.34	4,600.44	0.17	0.11	0.14
12,800.00	91.41	3.64	7,281.94	4,655.55	995.33	4,694.39	0.39	0.39	-0.02
12,893.00	92.18	3.08	7,279.03	4,748.34	1,000.78	4,787.34	1.02	0.83	-0.60
12,988.00	91.48	3.42	7,276.00	4,843.14	1,006.16	4,882.28	0.82	-0.74	0.36
13,083.00	90.94	2.89	7,273.99	4,937.97	1,011.39	4,977.25	0.80	-0.57	-0.56
13,177.00	91.64	2.35	7,271.87	5,031.85	1,015.68	5,071.23	0.94	0.74	-0.57
13,269.00	92.21	2.00	7,268.78	5,123.73	1,019.17	5,163.17	0.73	0.62	-0.38
13,289.00	92.29	1.85	7,268.00	5,143.71	1,019.84	5,183.16	0.85	0.40	-0.75
Last SDI MWD Survey									
13,343.00	92.29	1.85	7,265.84	5,197.63	1,021.58	5,237.11	0.00	0.00	0.00
Projection to TD : 2630' FSL 603' FEL Sec 33									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
150.00	150.00	-0.45	0.39	First SDI MWD Survey
1,812.00	1,770.51	-254.41	204.36	Last SDI MWD Surface Survey
1,947.00	1,899.73	-285.30	228.27	First SDI MWD Production Survey
6,762.00	6,584.19	-1,018.25	713.43	Curve KOP
6,772.00	6,594.18	-1,017.92	713.31	First SDI MWD Curve Survey
7,998.00	7,314.32	-134.89	711.23	Last SDI MWD Curve Survey
8,052.00	7,316.56	-80.96	712.60	Landing Point : 2786' FSL 900' FEL Sec 4
8,093.00	7,318.08	-40.00	713.79	First SDI MWD Lateral Survey
13,289.00	7,268.00	5,143.71	1,019.84	Last SDI MWD Survey
13,343.00	7,265.84	5,197.63	1,021.58	Projection to TD : 2630' FSL 603' FEL Sec 33

Checked By: _____	Approved By: _____	Date: _____
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